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Dikraneura fieberi (Loew).
Empoasca trifasciata Gill.
Empoasca obtusa Walsh.
Empoasca albolinea Gill.
Empoasca alboneura Gill.
Empoasca mali (LeB.).
Empoasca flavescens (Fabr.).
Empoasca aureoviridis (Uhl.). [K. S. A. C.]
Empoasca viridescens Walsh. [Tuck.]
Typhlocyba rosæ (Linn.).
Typhlocyba querci var. *gillettei* Van D.
Hymetta trifasciata (Say).
Erythroneura tricineta Fh.
Erythroneura basilaris (Say).
Erythroneura rubroscuta (Gill.).
Erythroneura illinoiensis (Gill.).
Erythroneura maculata (Gill.).
Erythroneura scutelleris (Gill.).
Erythroneura crevecœuri (Gill.).
Erythroneura comes (Say).
Erythroneura comes var. *vitifex* Fh. [K. S. A. C.]
Erythroneura comes var. *ziczac* Walsh.
Erythroneura comes var. *vitis* (Harr.).
Erythroneura comes var. *infusata* (Gill.).
Erythroneura comes var. *coloradensis* (Gill.).
Erythroneura comes var. *octolineata* Walsh. [Tuck.]
Erythroneura obliqua (Say).
Erythroneura obliqua var. *nævus* (Gill.).
Erythroneura dorsalis (Gill.).
Erythroneura fumida (Gill.).
Erythroneura vulnerata Fh.
Erythroneura nigra (Gill.).

A List of the Grasses of Douglas County.

P. B. LAWSON.

While studying the leafhoppers of the state of Kansas the writer became interested in the grasses upon which these insects were found and in the seemingly large number of species that occurred within the boundaries of a single county.

This led to a study of the local flora in the field and to a simple study of the literature dealing with the records of the plants found in the county. The latter study revealed the fact that in late years very little work has been done in Kansas along this line, though in earlier years Prof. James Carruth, of the State University, and Professors Kellerman and Hitchcock, of the State Agricultural College, published several lists of the grasses found in the different parts of the state.

Most of the species recorded below have been seen by the writer. Some, however, are included in the list on the authority of the above men; a few added on the authority of Mr. Smyth; several species are represented in the herbariums of the State University and the State Agricultural College, which the writer has not seen in the field; and a few species are included on the authority of Dr. Grace Charles, of the botany department of the University of Kansas, to whom the writer is indebted for most generous help and instruction in the working out of this list. Species included in the list on the authority of any of the above, bear their names in parentheses.

Tribe MAYDEÆ.

Tripsacum dactyloides L.

Tribe ANDROPOGONEÆ.

Schizachyrium scoparium (Michx.) Nash.

Andropogon furcatus Muhl.

Sorghastrum nutans (L.) Nash.

Holcus halepensis L.

Tribe PANICEÆ.

Syntherisma sanguinale (L.) Dulac.

Leptoloma cognatum (Schultes) Chase.

Eriochloa punctata (L.) W. Hamilton.

Paspalum stramineum Nash.

Paspalum setaceum Michx.

Echinochloa crus-galli (L.) Beauv.

Panicum dichotomiflorum Michx.

Panicum capillare L.

Panicum virgatum L.

Panicum anceps Michx. [Carruth.]

Panicum agrostoides Spreng. [K. S. A. C.]

Panicum sphærocarpon Ell.

Panicum dichotomum L.

Panicum huachucae Ashe.

Panicum leibergii (Vasey) Scribn.

Panicum scribnerianum Nash.

Panicum oligosanthos Schult. [Carruth.]

Panicum Wilcoxianum Vasey.

Panicum scoparium Lam.

Panicum clandestinum L.

Chætochloa glauca (L.) Scribn.

Chætochloa viridis (L.) Scribn.

Chætochloa italica (L.) Scribn.

Cenchrus carolinianus Walt.

Tribe ORYZEÆ.

Homalocenchrus virginicus (Willd.) Britton.

Homalocenchrus oryzoides (L.) Poll.

Tribe PHALARIDEÆ.

Phalaris arundinacea L. [Carruth.]

Tribe AGROSTIDÆ.

- Stipa spartea* Trin.
Aristida oligantha Michx.
Muhlenbergia schreberi Gmel.
Muhlenbergia sobolifera (Muhl.) Trin.
Muhlenbergia mexicana (L.) Trin.
Muhlenbergia racemosa (Michx.) B. S. P.
Muhlenbergia tenuiflora (Willd.) B. S. P.
Muhlenbergia cuspidata (Torr.) Nash. [Carruth.]
Brachyelytrum erectum (Schreb.) Beauv. [Smyth.]
Phleum pratense L.
Alopecurus geniculatus L. [K. S. A. C.]
Sporobolus vaginæflorus Torr.
Sporobolus neglectus Nash.
Sporobolus asper (Michx.) Kunth.
Sporobolus angustus Buckley. [Carruth.]
Sporobolus cryptandrus (Torr.) A. Gray.
Sporobolus heterolepis A. Gray. [Carruth.]
Agrostis alba L.
Agrostis canina L.
Agrostis altissima (Walt.) O. Tuckerm. [Carruth.]
Agrostis hyemalis (Walt.) B. S. P.
Calamagrostis canadensis (Michx.) Beauv. [Carruth.]

Tribe CHLORIDÆ.

- Capriola Dactylon* (L.) Kuntze.
Spartina Michauxiana Hitchc.
Chloris verticillata Nutt.
Schedonnardus paniculatus (Nutt.) Trelease.
Bouteloua hirsuta Lag. [Carruth.]
Bouteloua oligostachya (Nutt.) Torr.
Ætheropogon curtipendulus (Michx.) Tourn.
Eleusine indica (L.) Gaertn.
Leptochloa filiformis (Lam.) Beauv. [Carruth.]

Tribe FESTUCEÆ.

- Phragmites phragmites* (L.) Karst.
Tridens flava (L.) Hitchc.
Triplasis purpurea (Walt.) Chapm. [Carruth.]
Diplachne fascicularis (Lam.) Beauv. [Carruth.]
Eragrostis capillaris (L.) Nees. [Carruth.]
Eragrostis hirsuta (Michx.) Nees.
Eragrostis Frankii Steud. [Carruth.]
Eragrostis pilosa (L.) Beauv.
Eragrostis major Host.
Eragrostis pectinacea (Michx.) Steud.
Eragrostis trichodes (Nutt.) Nash. [Carruth.]
Eragrostis hypnoides (Lam.) B. S. P.
Sphenopholis obtusata (Michx.) Scribn.
Sphenopholis pallens (Spreng.) Scribn.

Kæleria cristata (L.) Pers.
Melica mutica Walt.
Korycarpus arundinaceus Zea. [Carruth.]
Uniola latifolia Michx.
Dactylis glomerata L.
Poa pratensis L.
Poa autumnalis Muhl. [Smyth.]
Poa sylvestris A. Gray.
Poa compressa L.
Panicularia nervata (Willd.) Kuntze.
Panicularia grandis (S. Wats.) Nash. [Smyth.]
Festuca octoflora Walt. [Carruth.]
Festuca ovina L. [Carruth.]
Festuca elatior L.
Festuca nutans Willd.
Bromus ciliatus L.
Bromus inermis Leyn.
Bromus hordeaceus L.
Bromus secalinus L.
Bromus racemosus L.

Tribe HORDEÆ.

Lolium perenne L.
Agropyron tenerum Vasey.
Hordeum nodosum L.
Hordeum pusillum Nutt.
Hordeum jubatum L.
Elymus virginicus L.
Elymus canadensis L.
Elymus brachystachys Scribn. & Ball. [Charles.]
Elymus striatus Willd.
Hystrix hystrix (L.) Millsp. [Carruth.]

Field Work in Kansas and Texas.

By CHARLES H. STERNBERG.

On April 7, 1919, we left Lawrence in my Ford truck for western Kansas. Mr. Knoblock, of Quincy, Ill., was my driver. After a very disagreeable journey of seven days, on account of rain and bad roads, we reached Quinter, Kan. The next day we made our camp in Mr. Sampson's pasture on Hackberry creek. The canyons were filled with great snowdrifts, and the weather was bad for some time.

Two miles east of camp I found a beautiful plate of the crinoid *Untacrinus socialis*. They covered an area of eighteen square feet. In one case the arcs were spread over the plate for over three feet. This I sent to the state museum at Albany, N. Y.

After leaving this camp we went to the head of the canyon, east of Monument Rocks, in western Gove county. Mr. Lester Olds was my assistant, as Mr. Knoblock had returned home. Here I discovered two very fine specimens.